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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/672,879	09/29/2000	Minoru Handa	0757-0225P-SP	9477
	90 12/18/2002			
Birch Stewart Kolasch & Birch LLP			EXAMINER	
P O Box 747			L/Otto	NER
Falls Church, VA 22040-0747			LOBO, IAN J	
			ART UNIT	PAPER NUMBER
			3662	
			DATE MAILED: 12/18/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	09/672,879	HANDA ET AL.				
a mee near can many	Examiner	Art Unit				
The MAILING DATE of this account is	lan J. Lobo	3662				
The MAILING DATE of this communication appears on the cover sh t with th correspond nc address						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 26 S	September 2002					
0-10	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) <u>12-18 and 21-25</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11,19 and 20</u> is/are rejected.						
7)☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CER 1.85(a)						
ine proposed drawing correction filed oni	s: a)□ approved b)□ disapprov	ed by the Examiner.				
if approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) □ Some * c) □ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)						
1) X Notice of References City J (DTO 200)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	E\	TO-413) Paper No(s) ent Application (PTO-152)				
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Action						

Application/Control Number: 09/672,879

Art Unit: 3662

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claim 19 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In claim 19, the specification is non-enabling with respect to "a sampling plane generator". Applicant is requested to point out where, in the specification, a description of such "sampling plane generator" is provided.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 20 is rejected under 35 U.S.C. 102(b) as being anticipated by the patent to Jarman et al ('184).

With respect to the breath of claim 20, applicant's attention is directed to col. 4, lines 3-12 of the patent to Jarman et al.

Application/Control Number: 09/672,879 Page 3

Art Unit: 3662

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over the PCT patent ('919) or US patent to Wright et al ('373) when taken in view of Gilmour ('344).

The Wright et al patents disclose beam-forming methods and apparatuses that include multiplexers, analog-to-digital converters and a signal processor. The difference between independent claims 1, 5, 9 and 10 and the Wright et al systems is the claimed selection of sampling data from different scanning cycles.

Gilmour teaches the selecting of sampling data from multiple scanning cycles is a well-known technique in beam-forming, especially in side looking sonar applications. In view of Gilmour, it would have been obvious to one of ordinary skill in the art to modify the Wright et al systems to sample data from multiple scanning cycles. Claims 1, 5, 9 and 10 are so rejected.

Dependent claims 2-4 and 6-11 are further provided by the above noted prior art.

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Application/Control Number: 09/672,879

Art Unit: 3662

Response to Arguments

6. Applicant's arguments filed September 26, 2002 have been fully considered but they are not persuasive. First, with respect to claim 20, the argument is moot in view of the new reference and rejection.

Second, with respect to claim 19, applicants remarks do not suffice to overcome the 35 USC 112, first paragraph rejection since it is still unclear where, in the specification, a description of the "a sampling plane generator" is provided.

Finally, with respect to independent claims 1, 5, 9 and 10, applicant's reference Fig. 2 of the instant application as providing limitations which are not provided by the prior art. However, it is unclear how such figure translates to that which is instantly claimed.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to lan J. Lobo whose telephone number is (703) 306-4161. The examiner can normally be reached on Mon - Fri, 6:30 - 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (703) 306-4171. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications.

Application/Control Number: 09/672,879

Art Unit: 3662

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

1113.

lan J. Lobo

Primary Examiner

Page 5

Art Unit 3662

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December 13, 2002